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State of Utah
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January 31, 2002

TO: Internal File

THRU: Dave W. Darby, Senior Reclamation Specialist/Hydrology/Team Lead 

FROM: Jim D. Smith, Senior Reclamation Specialist/Geology 

RE: Incidental Boundary Change, Energy West Mining Company, PacifiCorp, Deer Creek Mine, C/015/018-IB01K

SUMMARY:

Energy West Mining Company has received a 65.7 acre adjustment to federal Lease U-06039, increasing the lease from 1,387.27 to 1,452.97 acres. This will provide a right-of-way from the current Deer Creek Mine permit area to the SITLA Mill Fork Lease, which Energy West acquired in 1999. On November 28, 2001, Energy West submitted an Application for Permit Change to add this area as an Incidental Boundary Change (IBC) to the current Deer Creek Mine permit area.

No additional hydrologic information has been submitted with the Application for Permit Change. Because of the small area involved, because the addition of the larger adjacent Mill Fork Tract is being reviewed concurrently with the review for this IBC, and most of all because hydrologic information in the current MRP adequately covers this area - which is within the adjacent area for the current permit area - the Division is not requiring any additional hydrologic information for this IBC.

TECHNICAL MEMO

TECHNICAL ANALYSIS:

ENVIRONMENTAL RESOURCE INFORMATION

Regulatory Reference: Pub. L 95-87 Sections 507(b), 508(a), and 516(b); 30 CFR 783., et. al.

HYDROLOGIC RESOURCE INFORMATION

Regulatory Reference: 30 CFR Sec. 701.5, 784.14; R645-100-200, -301-724.

Analysis:

Coal is to be mined from the Hiawatha Seam. The entries through the IBC to the Mill Fork Lease are shown on Plate 3-7 in the IBC submittal. No new hydrologic information is included in the IBC submittal. This 65.7 acre IBC is within the area of the current Deer Creek Mine permit area.

Hydrologic information for the mine permit area, including the IBC area, in the approved Deer Creek Mine MRP is sufficient to determine ground water usage, the location and ownership of existing wells, springs, and other ground-water resources, the name, location, ownership, and description of all surface-water bodies such as streams, lakes, and impoundments, and information on surface- and ground-water quality and quantity sufficient to demonstrate seasonal variation and water usage. The Division is not requiring any additional hydrologic information for this IBC.

Sampling and Analysis

This section does not apply to this IBC.

Baseline Information

This section does not apply to this IBC.

Ground-water Information

This section does not apply to this IBC.

Surface Water Information

This section does not apply to this IBC.

Baseline Cumulative Impact area Information

This section does not apply to this IBC.

Modeling

This section does not apply to this IBC.

Alternative Water Source Information

This section does not apply to this IBC.

Probable Hydrologic Consequences Determination

The application for the IBC has been reviewed by the Division, and the Division has determined that a new or updated PHC shall not be required.

Findings:

Hydrologic Resource Information in the current Deer Creek Mine MRP provides information that is adequate to meet the requirements of the Coal Mining Rules for this IBC area.

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

General

Hydrologic information for the mine permit area, including the IBC area, in the approved Deer Creek Mine MRP is sufficient to determine ground water usage, the location and ownership of existing wells, springs, and other ground-water resources, the name, location, ownership, and description of all surface-water bodies such as streams, lakes, and impoundments, and information on surface- and ground-water quality and quantity sufficient to demonstrate seasonal variation and water usage. The Division is not requiring any additional hydrologic information for this IBC.

TECHNICAL MEMO

Probable Hydrologic Consequences Determination

The application for the IBC has been reviewed by the Division, and the Division has determined that a new or updated PHC shall not be required.

Ground-water monitoring

No additional ground-water monitoring is proposed. Current monitoring is sufficient to cover this IBC area.

Surface-water monitoring

No additional surface-water monitoring is proposed. Current monitoring is sufficient to cover this IBC area.

Acid and toxic-forming materials

This section does not apply to this IBC.

Transfer of wells

This section does not apply to this IBC.

Discharges into an underground mine

This section does not apply to this IBC.

Gravity discharges

This section does not apply to this IBC.

Water quality standards and effluent limitations

This section does not apply to this IBC.

Diversions

This section does not apply to this IBC.

Stream buffer zones

This section does not apply to this IBC.

Sediment control measures

This section does not apply to this IBC.

Siltation structures.

This section does not apply to this IBC.

Sedimentation ponds.

This section does not apply to this IBC.

Other treatment facilities

This section does not apply to this IBC.

Exemptions for siltation structures

This section does not apply to this IBC.

Discharge structures

This section does not apply to this IBC.

Impoundments

This section does not apply to this IBC.

Ponds, Impoundments, Banks, Dams, and Embankments

This section does not apply to this IBC.

Casing and sealing of wells

This section does not apply to this IBC.

Findings:

Hydrologic Operation Information in the current Deer Creek Mine MRP provides information that is adequate to meet the requirements of the Coal Mining Rules for this IBC area.

TECHNICAL MEMO

RECLAMATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 784.14, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-301-512, -301-513, -301-514, -301-515, -301-532, -301-533, -301-542, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-733, -301-742, -301-743, -301-750, -301-751, -301-760, -301-761.

Analysis:

General

Hydrologic information for the mine permit area, including the IBC area, in the approved Deer Creek Mine MRP is sufficient for the permittee to carry out the proposed reclamation plan found in the current MRP. There will be no surface impacts in the IBC area.

Ground-water monitoring

No additional reclamation ground-water monitoring is proposed. Reclamation ground-water monitoring as currently proposed in the MRP is sufficient to cover this IBC area.

Surface-water monitoring

No additional reclamation surface-water monitoring is proposed. Reclamation surface-water monitoring as currently proposed in the MRP is sufficient to cover this IBC area.

Acid and toxic-forming materials

This section does not apply to this IBC.

Transfer of wells

This section does not apply to this IBC.

Discharges into an underground mine

This section does not apply to this IBC.

Gravity discharges

This section does not apply to this IBC.

Water quality standards and effluent limitations

This section does not apply to this IBC.

Diversions

This section does not apply to this IBC.

Stream buffer zones

This section does not apply to this IBC.

Sediment control measures

This section does not apply to this IBC.

Siltation structures

This section does not apply to this IBC.

Sedimentation ponds

This section does not apply to this IBC.

Other treatment facilities

This section does not apply to this IBC.

Exemptions for siltation structures

This section does not apply to this IBC.

Discharge structures

This section does not apply to this IBC.

Impoundments

This section does not apply to this IBC.

Ponds, Impoundments, Banks, Dams, and Embankments

This section does not apply to this IBC.

TECHNICAL MEMO

Casing and sealing of wells

This section does not apply to this IBC.

Findings:

Hydrologic Reclamation Information in the current Deer Creek Mine MRP provides information that is adequate to meet the requirements of the Coal Mining Rules for this IBC area.

CUMULATIVE HYDROLOGIC IMPACT ASSESSMENT

Regulatory Reference: 30 CFR Sec. 784.14; R645-301-730.

Analysis:

This application for an IBC has been reviewed by the Division, and the Division has determined that a new or updated CHIA shall not be required.

RECOMMENDATIONS:

Approval of this IBC to the Deer Creek MRP is recommended.

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